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## A UNIFIED RECEIVER FOR LAYERED AND HIERARCHICAL MODULATION SYSTEMS ...

... for demodulating the received signal, wherein one demodulation mode is hierarchical demodulation and another demodulation mode is layered demodulation. ...

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[0010] The application of conventional hierarchical demodulation techniques can ...

Layered demodulation first FEC-decodes the upper layer symbols with a ...

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## (WO/2008/016280) BANDWIDTH-EFFICIENT CONTROL AND BITMAP SIGNALING ...

... portions of the resource allocation information comprises performing one of super-position decoding, hierarchical demodulation and layered demodulation. ...

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## Digital radio communication system for communicating M-ary ...

That is to say, in a radio communication system according to this embodiment, it is possible to use the hierarchical demodulation shown in Japanese Patent ...

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## Digital radio communication system for communicating M-ary ...

M. Uesugi, et al.; "A Layered Demodulation Scheme for Adaptive ..... it is possible to use the hierarchical demodulation shown in Japanese Patent ...

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... a number of demodulation modes, where at least two of the demodulation modes represent a hierarchical demodulation mode and a layered demodulation mode. ...  
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... multi-level signal, wherein at least two of the number of demodulation modes are a hierarchical demodulation mode and a layered demodulation mode. ...  
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# A UNIFIED RECEIVER FOR LAYERED AND HIERARCHICAL MODULATION SYSTEMS

Publication number: EP1625686

Publication date: 2006-02-15

Inventor: KOSLOV JOSHUA (US); RAMASWAMY KUMAR (US)

Applicant: THOMSON LICENSING (FR)

Classification:

- international: *H04L27/00; H04L27/34; H04L27/38; H04L27/00; H04L27/34; H04L27/38; (IPC1-7): H04L5/04; H04L27/34; H04L27/38*

- European: H04L27/00F; H04L27/34M; H04L27/38

Application number: EP20040751223 20040424

Priority number(s): WO2004US13734 20040424; US20030471167P 20030516

Also published as:



WO2004105302 (A1)

KR20060021312 (A)

EP1625686 (A0)

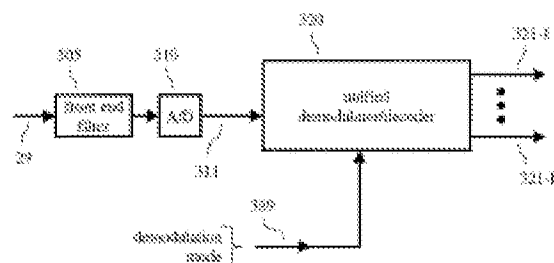
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Abstract not available for EP1625686

Abstract of corresponding document: WO2004105302

A satellite receiver includes a down converter for providing a received signal and a demodulator having at least two demodulation modes for demodulating the received signal, wherein one demodulation mode is hierarchical demodulation and another demodulation mode is layered demodulation.



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### Demodulation structure for fast fading cellular channels - Patent ...

The present invention advantageously addresses the above and other needs by combining the desirable features of two demodulation modes. ...

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Further, only two demodulation modes are described in the demodulation mode table shown in FIG. 3. Alternatively, the constellation of the modulation system ...

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### Repetition coding in a satellite-based communications system invention

... wherein the demodulating step includes the steps of: selecting one of at least two demodulation modes; and performing the demodulation in accordance ...

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### A new method of demodulating the digital frequency modulation signals

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### [APPLICATION] Unified receiver for layered and hierarchical modulation systems - Google Patents Result

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The device provides two demodulation modes, and can receive signals at multiple carrier frequencies and bit transmission rates. The device can be integrated ...

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As can be seen from Figure 17, the required bandwidth of this filter varies between the two demodulation modes. FSK mode: The 99% energy bandwidth of an FSK ...

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The two demodulation modes provided are designed for the following main applications: •

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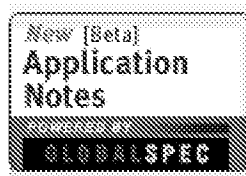
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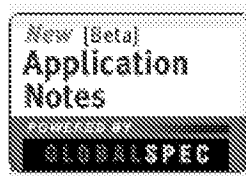
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 March 31 2008-April 2 2008 Page(s):1 - 6  
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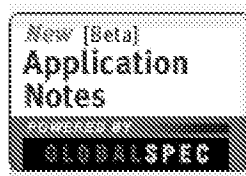
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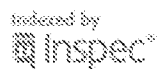
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patno:WO04105302  
...mode is a hierarchical demodulation mode and...mode is a layered demodulation mode. [0005...modes are a hierarchical demodulation mode and a layered demodulation mode; and...represent a hierarchical demodulation mode and a layered demodulation mode. The...  
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Koslov, Joshua Lawrence / Ramaswamy, Kumar, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Jan 2007  
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...represent a hierarchical demodulation mode and a layered demodulation mode. The...set in the hierarchical demodulation mode, unified...examined demodulation mode, unified...set in the layered demodulation mode. The...  
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WANG, Shu (LG ELECTRONICS INC. ; YOON, Young Cheul), *PATENT COOPERATION TREATY APPLICATION*, Feb 2008  
patno:WO08016280  
...one of super-position decoding, hierarchical demodulation and layered demodulation. It is further contemplated that...one of super-position decoding, hierarchical demodulation and layered demodulation. It is further contemplated that...  
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KOSLOV, Joshua (THOMSON LICENSING S.A.), *PATENT COOPERATION TREATY APPLICATION*, Dec 2004  
patno:WO04105337  
...received multi level signal, wherein at least two of the number of levels of the signal is a hierarchical demodulation mode and a layered demodulation mode. The...includes a repetition decoder for use in decoding at least...  
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- ☐ 5. [BANDWIDTH-EFFICIENT CONTROL AND BITMAP SIGNALING USING IN WIRELESS COMMUNICATION SYSTEMS](#)  
Yoon, Young C. / Wang, Shu (LG Electronics Inc.), *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Apr 2008  
patno:US20080089354  
A method for transmitting information for a Multimedia Broadcast/Multicast Service (MBMS) capable of receiving a specific MBMS service without any difficulty in which the user subscribed to the specific MBMS service moves from an area to the, in which the user is not subscribed to the specific MBMS service. The...  
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...represent a hierarchical demodulation mode and a layered demodulation mode. The...set in the hierarchical demodulation mode, unified...examined demodulation mode, unified...set in the layered demodulation mode. The...  
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Chen, Ernest C. / Santoru, Joseph (The DIRECTV Group, Inc.  
*AND TRADEMARK OFFICE GRANTED PATENT*, Aug 2008

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...conventional hierarchical modulation. Layered demodulation fi  
layer...input signal 202. Current work in hierarchical demodulati  
this application...The application of conventional hierarchical dem  
result in excessive...

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CHEN, Ernest C. / SANTORU, Joseph (THE DIRECTV GROUP,  
*COOPERATION TREATY APPLICATION*, Jan 2004

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...turbo code. -3 [0010] The application of conventional hierarchic  
techniques can result in excessive symbol errors in...Figure 1B for  
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layer...input signal 202. Current work in hierarchical demodulati  
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result in excessive...

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*STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Jan

patno:US6990627

A coding section 101 performs error detection coding of data for ea  
detection unit, and an M-ary modulation section 102 arranges data  
error detection units in one transmission unit, and transmits that ..

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| <ul style="list-style-type: none"> <li>▪ demodulator</li> <li>▪ transmitter</li> <li>▪ signal space</li> <li>▪ layered</li> <li>▪ decoder</li> <li>▪ delay element</li> <li>▪ decoding</li> <li>▪ log-likelihood ratio</li> <li>▪ control signal</li> <li>▪ usa237862</li> </ul> |
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1.

[A UNIFIED RECEIVER FOR LAYERED AND HIERARCHICAL MODULATION SYSTEMS](#)  
KOSLOV, Joshua / RAMASWAMY, Kumar (THOMSON LICENSING S.A.), *PATENT COOPERATION TREATY APPLICATION*, Dec 2004  
patno: WO04105302

...invention, a receiver includes a down converter for providing a receiver demodulator having at least two demodulation modes for demodulating a signal wherein one demodulation mode is a hierarchical demodulation mode and the other is a non-hierarchical demodulation mode. Full text available at patent office. For more in-depth search [similar results](#)
2.

[Unified receiver for layered and hierarchical modulation systems](#)  
Koslov, Joshua Lawrence / Ramaswamy, Kumar, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Jan 2007  
patno: US20070011716

A satellite receiver includes a down converter for providing a receiver demodulator having at least two demodulation modes for demodulating a signal wherein one demodulation mode is hierarchical demodulation and the other is a non-hierarchical demodulation mode. Full text available at patent office. For more in-depth search [similar results](#)
3.

[REPETITION CODING IN A SATELLITE-BASED COMMUNICATIONS SYSTEM](#)  
KOSLOV, Joshua (THOMSON LICENSING S.A.), *PATENT COOPERATION TREATY APPLICATION*, Dec 2004  
patno: WO04105337

A satellite communications system comprises a transmitter, a satellite receiver. The transmitter transmits an uplink multi-level modulated signal (e.g., orthogonal frequency division modulation or layered modulation) to the satellite transponder, which transmits the signal to a ground station. Full text available at patent office. For more in-depth search [similar results](#)
4.

[Automatic gain control adaptive for plural modulation schemes](#)  
Yamauchi, Shigeki (Oki Electric Industry Co., Ltd.), *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Jun 2008  
patno: US7386285

An AGC circuit controls LNA and VGA amplifiers such that a receiver circuit can receive a signal at high speed with tracking errors prevented according to each modulation scheme. The circuit generates LNA and VGA control signals controlling the LNA and VGA amplifiers. Full text available at patent office. For more in-depth search [similar results](#)
5.

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[<http://www.testequipmentdepot.com/kalman/pdf/spectran...>]  
[similar results](#)
6.

[Repetition coding in a satellite-based communications system](#)  
Koslov, Joshua Lawrence, *UNITED STATES PATENT AND TRADEMARK OFFICE PUBLICATION*, Feb 2007  
patno: US20070025283

A satellite communications system comprises a transmitter, a satellite receiver. The transmitter transmits an uplink multi-level modulated signal (e.g., orthogonal frequency division modulation or layered modulation) to the satellite transponder, which transmits the signal to a ground station. Full text available at patent office. For more in-depth search [similar results](#)

modulation or layered modulation) to the satellite transponder, wh  
Full text available at patent office. For more in-depth search  
[similar results](#)

- ☐ 7. [Automatic gain control adaptive for plural modulation schemes](#)  
Yamauchi, Shigeki (Oki Electric Industry Co., Ltd.), *UNITED S  
TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Apr 2006  
patno:US20060077080

An AGC circuit controls LNA and VGA amplifiers such that a receive  
high speed with tracking errors prevented according to each modul  
circuit generates LNA and VGA control signals controlling the LNA a  
Full text available at patent office. For more in-depth search  
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- ☐ 8. [Design Details \[81K\]](#)  
Mar 2001

...Description The NKD1000RX receiver is a flexible general purpos  
The device provides two demodulation modes, and can receive :  
frequencies and bit transmission rates. The device can be integrate  
[<http://www.ee.ualberta.ca/~elliott/ee552/projects/1999...>]  
[similar results](#)

- ☐ 9. [Broadcasting signal receiver apparatus provided with controller for  
mode, and apparatus for controlling demodulation mode](#)  
Hayashi, Yoshikazu, *UNITED STATES PATENT AND TRADEMARK  
PUBLICATION*, Jan 2005  
patno:US20050010945

...modulation rates such as symbol rates or the like) and various of  
be used. Further, only two demodulation modes are described in  
table shown in FIG. 3. Alternatively, the constellation of the modul  
Full text available at patent office. For more in-depth search  
[similar results](#)

- ☐ 10. [Demodulation structure for fast fading cellular channels](#)  
Kim, In-Kyung / Sung, Wonjin (Hughes Electronics Corporat  
*PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Nov 2000  
patno:US6151487

A demodulator and demodulating technique is provided which auto  
according to the flat-fading or multipath channel status of an incor  
signal has delay spread in addition to fading a standard Maximum .  
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## Parent Data

10556544, filed 11/14/2005

is a national stage entry of PCT/US04/13734 International Filing Date: 04/24/2004 Which Claims Priority from Provisional Application 60471167, filed 05/16/2003

## Child Data

No Child Data

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## Application Number Information

Application Number: 10/556544

[Assignments](#)Examiner Number: 80488 / [TORRES, JUAN](#)Filing or 371(c) Date: 11/14/2005 [eDan](#)Group Art Unit: [2611](#)[IFW Madras](#)

Effective Date: 11/14/2005

Class/Subclass:

375/316.000

Waiting for Response

Application Received: 11/14/2005

Lost Case: NO

Desc.

Pat. Num./Pub. Num: /[20070011716](#)

Interference Number:

[Prior Art Filed](#)

Issue Date: 00/00/0000

Unmatched Petition: NO

[Prior Art Filed](#)

Date of Abandonment: 00/00/0000

[L&R Code](#): Secrecy Code:1

Attorney Docket Number: PU030154

Third Level Review: NO

Secrecy Order: NO

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION Status Date: 12/15/2006

Confirmation Number: 3313

Oral Hearing: NO

Title of Invention: UNIFIED RECEIVER FOR LAYERED AND HIERARCHICAL  
MODULATION SYSTEMS

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# Inventor Information for 10/556544

| Inventor Name           | City      | State/Country |
|-------------------------|-----------|---------------|
| KOSLOV, JOSHUA LAWRENCE | HOPEWELL  | NEW JERSEY    |
| RAMASWAMY, KUMAR        | PRINCETON | NEW JERSEY    |

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## Inventor Name Search Result

Your Search was:

Last Name = KOSLOV

First Name = JOSHUA

| Application#             | Patent#                 | Status | Date Filed | Title   | Inventor Name     |
|--------------------------|-------------------------|--------|------------|---|-------------------|
| <a href="#">07205403</a> | <a href="#">4845562</a> | 150    | 06/10/1988 | WIDESCREEN TELEVISION RECEPTION AND RECORDING SYSTEM UTILIZING CONVENTIONAL EQUIPMENT   | KOSLOV, JOSHUA L  |
| <a href="#">09484645</a> | <a href="#">6236283</a> | 150    | 01/18/2000 | Methods And Apparatus For Generating A Filtered Signal Having A Fixed Sampling Rate From A Variable Baud Rate Input Data Stream | KOSLOV, JOSHUA L. |
| <a href="#">09886590</a> | Not Issued              | 161    | 06/21/2001 | Methods and apparatus for smoothing the data rate of a digital data stream  | KOSLOV, JOSHUA L. |
| <a href="#">09886591</a> | <a href="#">7127019</a> | 150    | 06/21/2001 | METHODS AND APPARATUS FOR IMPLEMENTING MULTI-TONE RECEIVERS   | KOSLOV, JOSHUA L. |
| <a href="#">06444357</a> | <a href="#">4488178</a> | 150    | 11/24/1982 | CCD DEFECT CORRECTION WITHOUT DEFECT LOCATION MEMORY  | KOSLOV, JOSHUA L. |
| <a href="#">07404023</a> | <a href="#">4992873</a> | 150    | 09/07/1989 | VIDEO SIGNAL NOISE REDUCTION APPARATUS USING AMPLITUDE COMPANDING AND PREDICTIVE SIGNAL PROCESSING TECHNIQUES                   | KOSLOV, JOSHUA L. |
| <a href="#">07416695</a> | <a href="#">5005082</a> | 150    | 10/03/1989 | A VIDEO SIGNAL COMPANDER ADAPTIVELY RESPONSIVE TO PREDICTIONS OF THE VIDEO SIGNAL PROCESSED                                     | KOSLOV, JOSHUA L. |
| <a href="#">07472554</a> | Not Issued              | 161    | 01/30/1990 | VIDEO SIGNAL TIME COMPRESSION/EXPANSION APPARATUS   | KOSLOV, JOSHUA L. |
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|                          |                         |     |            |  |                   |
|--------------------------|-------------------------|-----|------------|--|-------------------|
|                          |                         |     |            | SYSTEM   |                   |
| <a href="#">07604536</a> | <a href="#">5121204</a> | 150 | 10/29/1990 | APPARATUS FOR SCRAMBLING SIDE PANEL-INFORMATION OF A WIDE ASPECT RATIO IMAGE SIGNAL                    | KOSLOV, JOSHUA L. |
| <a href="#">08109742</a> | <a href="#">5471508</a> | 250 | 08/20/1993 | CARRIER RECOVERY SYSTEM USING ACQUISITION AND TRACKING MODES AND AUTOMATIC CARRIER-TO-NOISE ESTIMATION | KOSLOV, JOSHUA L. |
| <a href="#">08303307</a> | <a href="#">5673293</a> | 250 | 09/08/1994 | METHOD AND APPARATUS FOR DEMODULATING QAM AND VSB SIGNALS  | KOSLOV, JOSHUA L. |
| <a href="#">08397441</a> | <a href="#">5648923</a> | 250 | 03/02/1995 | NYQUIST FILTER FOR USE IN A JOINT VSB/QAM DEMODULATOR  | KOSLOV, JOSHUA L. |
| <a href="#">08505056</a> | <a href="#">5867539</a> | 150 | 07/21/1995 | METHODS AND APPARATUS FOR REDUCING THE EFFECT OF IMPULSE NOISE ON RECEIVERS                            | KOSLOV, JOSHUA L. |
| <a href="#">08554696</a> | <a href="#">5692013</a> | 250 | 11/07/1995 | SHARED RESOURCES MODULATOR-DEMODULATOR CIRCUITS FOR USE WITH QUADRATURE AMPLITUDE MODULATED SIGNALS    | KOSLOV, JOSHUA L. |
| <a href="#">08789437</a> | <a href="#">5978823</a> | 250 | 01/27/1997 | METHODS AND APPARATUS FOR IMPLEMENTING AND CONTROLLING A DIGITAL MODULATOR                             | KOSLOV, JOSHUA L. |
| <a href="#">08789439</a> | <a href="#">5783974</a> | 150 | 01/27/1997 | DIGITAL INTERPOLATION UP SAMPLING CIRCUIT AND DIGITAL MODULATOR USING SAME                             | KOSLOV, JOSHUA L. |
| <a href="#">08807565</a> | <a href="#">5940450</a> | 250 | 02/28/1997 | CARRIER RECOVERY METHOD AND APPARATUS  | KOSLOV, JOSHUA L. |
| <a href="#">09135182</a> | <a href="#">6253347</a> | 250 | 08/17/1998 | AUTOMATIC SYNCHRONIZATION CIRCUIT FOR TRELLIS DECODER  | KOSLOV, JOSHUA L. |
| <a href="#">09200083</a> | <a href="#">6052701</a> | 250 | 11/25/1998 | METHODS OF PERFORMING INTERPOLATION USING FREQUENCY SHIFTING OPERATIONS AND FILTERS                    | KOSLOV, JOSHUA L. |
| <a href="#">09200084</a> | <a href="#">5978420</a> | 150 | 11/25/1998 | METHODS AND APPARATUS FOR IMPLEMENTING AND CONTROLLING A DIGITAL MODULATOR                             | KOSLOV, JOSHUA L. |

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| <a href="#">09419265</a> | <a href="#">6668029</a> | 250 | 10/15/1999 | METHODS AND APPARATUS FOR IMPLEMENTING DIGITAL RESAMPLING CIRCUITS  | KOSLOV, JOSHUA L.       |
| <a href="#">60064308</a> | Not Issued              | 159 | 11/05/1997 | AUTOMATIC SYNCHRONIZATION CIRCUIT FOR TRELLIS DECODER   | KOSLOV, JOSHUA L.       |
| <a href="#">60112029</a> | Not Issued              | 159 | 12/11/1998 | METHODS AND APPARATUS FOR IMPLEMENTING A DIGITAL RESAMPLING   | KOSLOV, JOSHUA L.       |
| <a href="#">60128312</a> | Not Issued              | 159 | 04/08/1999 | METHODS AND APPARATUS FOR GENERATING A FILTERED SIGNAL HAVING A FIXED SAMPLING RATE FROM A VARIABLE BAUD RATE INPUT DATA STREAM | KOSLOV, JOSHUA L.       |
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| <a href="#">10554936</a> | Not Issued              | 30  | 10/31/2005 | Method and apparatus for synchronizing a multi-level modulation signal  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#">10555617</a> | Not Issued              | 30  | 11/04/2005 | Apparatus and method for decoding in a hierarchical, modulation system  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#">10556544</a> | Not Issued              | 30  | 11/14/2005 | Unified receiver for layered and hierarchical modulation systems  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#">10565447</a> | Not Issued              | 30  | 01/20/2006 | Frame synchronization using soft decisions in a universal mobile telephone system receiver                                      | KOSLOV, JOSHUA LAWRENCE |
| <a href="#">10566877</a> | Not Issued              | 30  | 02/02/2006 | Adaptive Frame Synchronization in a Universal Mobile Telephone System Receiver  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#">10567946</a> | Not Issued              | 30  | 02/10/2006 | Methods and Apparatus For Hierarchical Modulation Using Radial Constellation  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#">10589764</a> | Not Issued              | 30  | 08/17/2006 | Method and Apparatus for Carrier Recovery in a Communications System  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#">11632136</a> | Not Issued              | 30  | 01/10/2007 | System and Method for Improved Carrier Recovery   | KOSLOV, JOSHUA LAWRENCE |
| <a href="#">11667783</a> | Not Issued              | 30  | 05/15/2007 | Method and Apparatus for Carrier Recovery Using Multiple Sources  | KOSLOV, JOSHUA LAWRENCE |



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| <a href="#"><u>11667791</u></a> | Not Issued | 20  | 05/15/2007 | Method and Apparatus For Carrier Recovery Using Multiple Sources  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>12087817</u></a> | Not Issued | 19  | 01/01/0001 | Apparatus and Method For Generating Scrambling Codes  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>60467946</u></a> | Not Issued | 159 | 05/05/2003 | Advanced modulation, pre-compensation and coding schemes for hierarchical modulation systems                              | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>60471166</u></a> | Not Issued | 159 | 05/16/2003 | Coding scheme in hierarchical or layered modulations using repetition codes to derive additional operational symbol rates | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>60471167</u></a> | Not Issued | 159 | 05/16/2003 | Unified receivers for layered and hierarchical modulation   | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>60496470</u></a> | Not Issued | 159 | 08/20/2003 | Methods and apparatus for hierarchical modulations with radial constellation  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>60733713</u></a> | Not Issued | 159 | 11/04/2005 | Apparatus and method for sensing ATSC signal in low signal-to-noise ratio   | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>60774126</u></a> | Not Issued | 159 | 02/16/2006 | Apparatus and method for detecting ATSC signal in low signal-to-noise ratio   | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>60799150</u></a> | Not Issued | 159 | 05/10/2006 | Vestigial sideband (VSB) protocol for mobile reception  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>60799625</u></a> | Not Issued | 159 | 05/11/2006 | Protocol for mobile reception and other environments  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>60817438</u></a> | Not Issued | 159 | 06/29/2006 | Scheme for broadcast and multi-access channels with multiple antenna and finite rate feedback                             | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>61041235</u></a> | Not Issued | 20  | 03/31/2008 | TILE PROCESSING IN WIRELESS COMMUNICATIONS  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>61041293</u></a> | Not Issued | 20  | 04/01/2008 | TILE AND ASSIGNMENT PROCESSING  | KOSLOV, JOSHUA LAWRENCE |
| <a href="#"><u>10556538</u></a> | Not Issued | 30  | 11/14/2005 | Repetition coding in a satellite-based communications system  | KOSLOV, JOSHUA LAWRENCE |

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## Inventor Name Search Result

Your Search was:

Last Name = RAMASWAMY

First Name = KUMAR

| Application#             | Patent#                 | Status | Date Filed | Title  | Inventor Name    |
|--------------------------|-------------------------|--------|------------|--|------------------|
| <a href="#">08342280</a> | <a href="#">5497401</a> | 150    | 11/18/1994 | BRANCH METRIC COMPUTER FOR A VITERBI DECODER OF A PUNCTURED AND PRAGMATIC TRELLIS CODE CONVOLUTIONAL DECODER SUITABLE FOR USE IN A MULTI-CHANNEL RECEIVER OF SATELLITE, TERRESTRIAL AND CABLE TRANSMITTED FEC COMPRESSED-DIGITAL TELEVISION DATA | RAMASWAMY, KUMAR |
| <a href="#">08528370</a> | <a href="#">5740203</a> | 150    | 09/14/1995 | TRELLIS DEMAPPER OF A CONVOLUTIONAL DECODER FOR DECODING PRAGMATIC TRELLIS CODES SUITABLE FOR USE IN A MULTI-CHANNEL RECEIVER OF SATELLITE, TERRESTRIAL AND CABLE TRANSMITTED FEC COMPRESSED-DIGITAL TELEVISION DATA                             | RAMASWAMY, KUMAR |
| <a href="#">08655269</a> | <a href="#">5712873</a> | 150    | 06/04/1996 | MULTI-MODE EQUALIZER IN A DIGITAL VIDEO SIGNAL PROCESSING SYSTEM   | RAMASWAMY, KUMAR |
| <a href="#">08721778</a> | Not Issued              | 161    | 09/25/1996 | OSCILLATION NETWORK IN A DIGITAL TIMING RECOVERY SYSTEM  | RAMASWAMY, KUMAR |
| <a href="#">08721779</a> | Not Issued              | 161    | 09/25/1996 | FILTER IN A DIGITAL TIMING RECOVERY SYSTEM   | RAMASWAMY, KUMAR |
| <a href="#">08721780</a> | <a href="#">5943369</a> | 150    | 09/25/1996 | TIMING RECOVERY  | RAMASWAMY,       |

|                          |                         |     |            |   |                  |
|--------------------------|-------------------------|-----|------------|---|------------------|
|                          |                         |     |            | SYSTEM FOR A DIGITAL SIGNAL PROCESSOR   | KUMAR            |
| <a href="#">08734555</a> | Not Issued              | 161 | 02/28/1997 | VOLTAGE CONTROLLED OSCILLATOR WITH MULTIPLIER AND DUTY CYCLE CORRECTIONS  | RAMASWAMY, KUMAR |
| <a href="#">08805198</a> | <a href="#">5930309</a> | 150 | 02/27/1997 | RECEIVER SIGNAL PROCESSING SYSTEM FOR CAP SIGNALS   | RAMASWAMY, KUMAR |
| <a href="#">08818590</a> | <a href="#">5946045</a> | 150 | 03/18/1997 | SYSTEM FOR FORMING PROGRAM GUIDES AND VIDEO DATA FOR STORAGE AND TRANSMISSION IN DIFFERENT CODING FORMATS           | RAMASWAMY, KUMAR |
| <a href="#">08818591</a> | <a href="#">6366326</a> | 150 | 03/18/1997 | SYSTEM FOR ACQUIRING, PROCESSING, AND STORING VIDEO DATA AND PROGRAM GUIDES TRANSMITTED IN DIFFERENT CODING FORMATS | RAMASWAMY, KUMAR |
| <a href="#">08818592</a> | <a href="#">5946052</a> | 150 | 03/18/1997 | SYSTEM FOR ACQUIRING AND PROCESSING VIDEO DATA AND PROGRAM GUIDES TRANSMITTED IN DIFFERENT CODING FORMATS           | RAMASWAMY, KUMAR |
| <a href="#">08835915</a> | <a href="#">5878088</a> | 150 | 04/10/1997 | DIGITAL VARIABLE SYMBOL TIMING RECOVERY SYSTEM FOR QAM  | RAMASWAMY, KUMAR |
| <a href="#">08884947</a> | <a href="#">5966412</a> | 150 | 06/30/1997 | APPARATUS AND METHOD FOR PROCESSING A QUADRATURE AMPLITUDE MODULATED (QAM) SIGNAL                                   | RAMASWAMY, KUMAR |
| <a href="#">08884948</a> | Not Issued              | 161 | 06/30/1997 | CODING A MULTILEVEL SIGNAL CONSTELLATION FOR TRANSMISSION IN A DIGITAL COMMUNICATION CHANNEL                        | RAMASWAMY, KUMAR |
| <a href="#">08942380</a> | Not Issued              | 161 | 10/01/1997 | APPARATUS AND METHOD FOR ALIGNING TRELLIS DEMAPPED DATA   | RAMASWAMY, KUMAR |
| <a href="#">09102885</a> | <a href="#">6816548</a> | 150 | 06/23/1998 | HDTV CHANNEL EQUALIZER  | RAMASWAMY, KUMAR |

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| <a href="#">09176182</a> | <a href="#">6590872</a> | 150 | 10/21/1998 | RECEIVER WITH PARALLEL CORRELATOR FOR ACQUISITION OF SPREAD SPECTRUM DIGITAL TRANSMISSION                             | RAMASWAMY, KUMAR |
| <a href="#">09176540</a> | <a href="#">6563862</a> | 150 | 10/21/1998 | DIGITAL VARIABLE SYMBOL RATE MODULATION   | RAMASWAMY, KUMAR |
| <a href="#">09187318</a> | <a href="#">6788710</a> | 150 | 11/06/1998 | AUXILIARY DATA INSERTION IN A TRANSPORT DATASTREAM  | RAMASWAMY, KUMAR |
| <a href="#">09193205</a> | <a href="#">6272136</a> | 150 | 11/16/1998 | PSEUDO-INTERFACE BETWEEN CONTROL AND SWITCHING MODULES OF A DATA PACKET SWITCHING AND LOAD BALANCING SYSTEM           | RAMASWAMY, KUMAR |
| <a href="#">09193645</a> | <a href="#">6272522</a> | 150 | 11/17/1998 | COMPUTER DATA PACKET SWITCHING AND LOAD BALANCING SYSTEM USING A GENERAL-PURPOSE MULTIPROCESSOR ARCHITECTURE          | RAMASWAMY, KUMAR |
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| <a href="#">09193652</a> | <a href="#">6424621</a> | 150 | 11/17/1998 | SOFTWARE INTERFACE BETWEEN SWITCHING MODULE AND OPERATING SYSTEM OF A DATA PACKET SWITCHING AND LOAD BALANCING SYSTEM | RAMASWAMY, KUMAR |
| <a href="#">09222389</a> | <a href="#">6470005</a> | 150 | 12/29/1998 | TRANSCEIVER PREROTATION BASED ON CARRIER OFFSET   | RAMASWAMY, KUMAR |
| <a href="#">09222465</a> | <a href="#">6370160</a> | 150 | 12/29/1998 | BASE TO HANDSET EPOCH SYNCHRONIZATION IN MULTI-LINE WIRELESS TELEPHONE  | RAMASWAMY, KUMAR |
| <a href="#">09222506</a> | <a href="#">6434365</a> | 150 | 12/29/1998 | PROVIDING INITIAL POWER ESTIMATE TO WIRELESS TELEPHONE HANDSETS   | RAMASWAMY, KUMAR |

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| <a href="#">09391059</a> | <a href="#">7263141</a> | 150 | 09/07/1999 | CODE MAPPING IN A TRELLIS DECODER  | RAMASWAMY, KUMAR |
| <a href="#">09396228</a> | <a href="#">6888840</a> | 150 | 09/15/1999 | OUTPUT SYMBOL RATE CONTROL IN A PACKET TRANSPORT RATE CONVERSION SYSTEM.   | RAMASWAMY, KUMAR |
| <a href="#">09396229</a> | <a href="#">6747983</a> | 150 | 09/15/1999 | TRANSPORT PACKET RATE CONVERSION   | RAMASWAMY, KUMAR |
| <a href="#">09423868</a> | <a href="#">6597750</a> | 150 | 11/15/1999 | OPPOSITE POLARIZATION INTERFERENCE CANCELLATION IN SATELLITE COMMUNICATION   | RAMASWAMY, KUMAR |
| <a href="#">09438464</a> | <a href="#">6564050</a> | 150 | 11/12/1999 | METHOD AND APPARATUS FOR COMBINING CORDED AND CORDLESS TELEPHONES FOR TELEPHONE CONFERENCING AND INTERCOM                | RAMASWAMY, KUMAR |
| <a href="#">09469116</a> | Not Issued              | 161 | 12/21/1999 | SUB-BAND FREQUENCY EQUALIZATION FOR TERRESTRIAL WIRELESS DIGITAL CHANNELS  | RAMASWAMY, KUMAR |
| <a href="#">09470462</a> | Not Issued              | 161 | 12/22/1999 | METHOD AND APPARATUS FOR SUPPORTING NON-VOICE SIGNAL SUCH AS FACSIMILE AND COMPRESSED VOICE OVER A DIGITAL WIRELESS LINK | RAMASWAMY, KUMAR |
| <a href="#">09475949</a> | Not Issued              | 161 | 12/31/1999 | SUBBAND ADPCM VOICE AND DECODING   | RAMASWAMY, KUMAR |
| <a href="#">09476641</a> | <a href="#">6621857</a> | 150 | 12/31/1999 | CARRIER TRACKING LOOP FOR DIRECT SEQUENCE SPREAD SPECTRUM SYSTEMS  | RAMASWAMY, KUMAR |
| <a href="#">09581065</a> | Not Issued              | 161 | 11/09/2000 | Multi-line telephone system for handling incoming caller id messages   | RAMASWAMY, KUMAR |
| <a href="#">09581146</a> | <a href="#">6847627</a> | 150 | 11/13/2000 | TIME-DIVISION MULTIPLE ACCESS (TDMA) MULTI-LINE WIRELESS TELEPHONE SYSTEM  | RAMASWAMY, KUMAR |
| <a href="#">09581148</a> | <a href="#">6788924</a> | 150 | 11/16/2000 | POWER SAVING PROTOCOL FOR TDMA MULTI-LINE WIRELESS TELEPHONE   | RAMASWAMY, KUMAR |

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|                          |                         |     |            | HANDSETS   |                  |
| <a href="#">09581191</a> | <a href="#">6668178</a> | 150 | 11/16/2000 | BATTERY-BACKUP MECHANISM FOR BASE UNIT OF WIRELESS TELEPHONE SYSTEM                        | RAMASWAMY, KUMAR |
| <a href="#">09581192</a> | <a href="#">6574769</a> | 150 | 11/15/2000 | ENHANCED RANGE/GRACEFUL DEGRADATION FOR DIGITAL WIRELESS TELEPHONE SYSTEM                  | RAMASWAMY, KUMAR |
| <a href="#">09581193</a> | <a href="#">6904031</a> | 150 | 11/15/2000 | RETRIEVING STORED DATA FROM A BASE UNIT OF A MULTI-LINE WIRELESS PHONE SYSTEM              | RAMASWAMY, KUMAR |
| <a href="#">09581267</a> | <a href="#">6628768</a> | 150 | 11/16/2000 | SYSTEM AND METHOD OF RESPONDING TO AN INCOMING CALL WHILE CONFERENCING                     | RAMASWAMY, KUMAR |
| <a href="#">09581268</a> | <a href="#">6832082</a> | 150 | 11/10/2000 | INITIALIZATION OF HANDSETS IN A MULTI-LINE WIRELESS PHONE SYSTEM FOR SECURE COMMUNICATIONS | RAMASWAMY, KUMAR |
| <a href="#">09581269</a> | Not Issued              | 161 | 11/10/2000 | Multi-line wireless telephone system computer interface                                    | RAMASWAMY, KUMAR |
| <a href="#">09581270</a> | <a href="#">6658242</a> | 150 | 11/09/2000 | TDMA WIRELESS TELEPHONE SYSTEM WITH INDEPENDENTLY TRACKED DEMODULATION PARAMETERS          | RAMASWAMY, KUMAR |
| <a href="#">09582385</a> | Not Issued              | 161 | 11/09/2000 | System and method for providing ip/internet telephony                                      | RAMASWAMY, KUMAR |
| <a href="#">09745215</a> | Not Issued              | 161 | 12/21/2000 | Delivering video over an ATM/DSL network using a multi-layered video coding system         | RAMASWAMY, KUMAR |
| <a href="#">09757315</a> | <a href="#">7096007</a> | 150 | 01/09/2001 | MOBILE COMMUNICATION SYSTEM HAVING A DIRECT AND BROADCAST LINK                             | RAMASWAMY, KUMAR |
| <a href="#">09825232</a> | <a href="#">6834091</a> | 150 | 04/03/2001 | TIME SYNCHRONIZATION FOR DATA OVER A POWERLINE MODEM NETWORK                               | RAMASWAMY, KUMAR |
| <a href="#">09825233</a> | <a href="#">6577231</a> | 150 | 04/03/2001 | CLOCK SYNCHRONIZATION OVER A POWERLINE MODEM NETWORK FOR                                   | RAMASWAMY, KUMAR |

|  |  |  |  |                  |  |
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|  |  |  |  | MULTIPLE DEVICES |  |
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## Inventor Name Search Result

Your Search was:

Last Name = RAMASWAMY

First Name = KUMAR

| Application#             | Patent#                 | Status | Date Filed | Title   | Inventor Name    |
|--------------------------|-------------------------|--------|------------|---|------------------|
| <a href="#">09837288</a> | <a href="#">7162634</a> | 150    | 04/18/2001 | METHOD FOR PROVIDING SECURITY ON A POWERLINE-MODEM NETWORK  | RAMASWAMY, KUMAR |
| <a href="#">09837289</a> | <a href="#">6703923</a> | 150    | 04/18/2001 | APPARATUS FOR PROVIDING SECURITY ON A POWERLINE-MODEM NETWORK   | RAMASWAMY, KUMAR |
| <a href="#">09884722</a> | <a href="#">6980651</a> | 150    | 06/19/2001 | METHOD FOR USING AN ACCESS CARD TO CREATE A SECURE SUB-NETWORK ON A PUBLIC NETWORK  | RAMASWAMY, KUMAR |
| <a href="#">09893912</a> | <a href="#">7054915</a> | 150    | 06/28/2001 | REMOTE SERVICES CONTROL IN AN ATM/DSL SERVICE NETWORK   | RAMASWAMY, KUMAR |
| <a href="#">09908230</a> | <a href="#">7073083</a> | 150    | 07/18/2001 | METHOD AND SYSTEM FOR PROVIDING EMERGENCY SHUTDOWN OF A MALFUNCTIONING DEVICE   | RAMASWAMY, KUMAR |
| <a href="#">09980166</a> | Not Issued              | 164    | 11/28/2001 | METHODS FOR BRIDGING A HAVI SUB-NETWORK AND A UPNP SUB-NETWORK AND DEVICE FOR IMPLEMENTING SAID METHODS                   | RAMASWAMY, KUMAR |
| <a href="#">10029645</a> | <a href="#">7428403</a> | 150    | 12/21/2001 | BI-DIRECTIONAL COMMUNICATION APPARATUS  | RAMASWAMY, KUMAR |
| <a href="#">10043469</a> | Not Issued              | 161    | 01/11/2002 | Digital subscriber line feature for enabling plain old telephone service on digital lines in the event of a power failure | RAMASWAMY, KUMAR |
| <a href="#">10044260</a> | <a href="#">6956933</a> | 150    | 01/11/2002 | DIRECTORY DELIVERY SYSTEM AND METHOD FOR A DIGITAL SUBSCRIBER LINE MODEM  | RAMASWAMY, KUMAR |
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|--------------------------|-------------------------|-----|------------|--|------------------|
| <a href="#">10044267</a> | <a href="#">6888832</a> | 150 | 01/11/2002 | METHOD AND SYSTEM FOR NOTIFYING CUSTOMER OF VOICEMAIL USING AN ATM SIGNALING CHANNEL FROM AN ATM/DSL HEAD-END NETWORK  | RAMASWAMY, KUMAR |
| <a href="#">10044633</a> | Not Issued              | 161 | 01/11/2002 | Method and system for voice traffic concentration in an ATM/DSL head-end network   | RAMASWAMY, KUMAR |
| <a href="#">10083865</a> | <a href="#">7401349</a> | 150 | 02/26/2002 | SATELLITE TELEVISION SYSTEM GROUND STATION HAVING WIDEBAND MULTI-CHANNEL LNB CONVERTER/TRANSMITTER ARCHITECTURE UTILIZING A FREQUENCY STABILIZED COMMON OSCILLATOR | RAMASWAMY, KUMAR |
| <a href="#">10084773</a> | Not Issued              | 41  | 02/26/2002 | Satellite television system ground station having wideband multi-channel LNB converter/transmitter architecture with controlled uplink transmission                | RAMASWAMY, KUMAR |
| <a href="#">10084774</a> | <a href="#">7383018</a> | 150 | 02/26/2002 | SATELLITE TELEVISION SYSTEM GROUND STATION HAVING WIDEBAND MULTI-CHANNEL LNB CONVERTER/TRANSMITTER ARCHITECTURE WITH COARSE TUNER IN OUTDOOR UNIT                  | RAMASWAMY, KUMAR |
| <a href="#">10089714</a> | <a href="#">7203187</a> | 150 | 04/02/2002 | MESSAGING SERVICES FOR DIGITAL SUBSCRIBER LOOP   | RAMASWAMY, KUMAR |
| <a href="#">10089770</a> | <a href="#">7092384</a> | 150 | 04/02/2002 | SYSTEM AND METHOD FOR PROVIDING VOICE AND/OR DATA SERVICES   | RAMASWAMY, KUMAR |
| <a href="#">10089772</a> | Not Issued              | 161 | 04/02/2002 | Components for providing voice and/or data service   | RAMASWAMY, KUMAR |
| <a href="#">10089773</a> | <a href="#">7050546</a> | 150 | 04/02/2002 | SYSTEM AND METHOD FOR PROVIDING POTS SERVICES IN DSL ENVIRONMENT IN EVENT OF FAILURES  | RAMASWAMY, KUMAR |
| <a href="#">10107025</a> | <a href="#">7389463</a> | 150 | 03/26/2002 | HIERARCHICAL BLOCK CODING FOR A PACKET-BASED COMMUNICATIONS SYSTEM   | RAMASWAMY, KUMAR |
| <a href="#">10107292</a> | Not Issued              | 161 | 03/26/2002 | Apparatus and methods for measuring multimedia demand and  | RAMASWAMY, KUMAR |

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| <a href="#">10130589</a> | <a href="#">7274653</a> | 150 | 10/15/2002 | HIERARCHICAL QAM TRANSMISSION SYSTEM WITH VARYING GROUPING FACTOR  | RAMASWAMY, KUMAR |
| <a href="#">10144880</a> | Not Issued              | 89  | 05/14/2002 | Video receiver architecture for digital subscriber line networks   | RAMASWAMY, KUMAR |
| <a href="#">10148155</a> | <a href="#">7073116</a> | 150 | 10/25/2002 | ERROR DETECTION/CORRECTION CODING FOR HIERARCHICAL QAM TRANSMISSION SYSTEMS  | RAMASWAMY, KUMAR |
| <a href="#">10148223</a> | <a href="#">7079585</a> | 150 | 10/25/2002 | GRAY ENCODING FOR HIERARCHICAL QAM TRANSMISSION SYSTEMS  | RAMASWAMY, KUMAR |
| <a href="#">10148224</a> | <a href="#">7149259</a> | 150 | 10/25/2002 | CENTER OF GRAVITY CONTROL FOR HIERARCHICAL QAM TRANSMISSION SYSTEMS  | RAMASWAMY, KUMAR |
| <a href="#">10159191</a> | Not Issued              | 161 | 05/31/2002 | Request mapping for load balancing   | RAMASWAMY, KUMAR |
| <a href="#">10183081</a> | <a href="#">6954793</a> | 150 | 06/27/2002 | PRE-PAID DATA CARD AUTHENTICATION IN A PUBLIC WIRELESS LAN ACCESS SYSTEM   | RAMASWAMY, KUMAR |
| <a href="#">10186006</a> | Not Issued              | 161 | 06/28/2002 | Configuring alarms of clocks over a local area network   | RAMASWAMY, KUMAR |
| <a href="#">10206683</a> | <a href="#">7127428</a> | 150 | 07/26/2002 | DYNAMIC BUSINESS RELATIONSHIP ESTABLISHMENT IN A PUBLIC WIRELESS LAN ENVIRONMENT                                   | RAMASWAMY, KUMAR |
| <a href="#">10229760</a> | Not Issued              | 161 | 08/28/2002 | Apparatus, methods and articles of manufacture for wireless communication networks                                 | RAMASWAMY, KUMAR |
| <a href="#">10243228</a> | <a href="#">6754194</a> | 150 | 09/13/2002 | METHOD AND APPARATUS FOR INDICATING THE PRESENCE OF A WIRELESS LOCAL AREA NETWORK BY DETECTING SIGNATURE SEQUENCES | RAMASWAMY, KUMAR |
| <a href="#">10243905</a> | Not Issued              | 161 | 09/13/2002 | Method and apparatus for detecting the presence of a wireless local area network using a position location system  | RAMASWAMY, KUMAR |

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| <a href="#">10246263</a> | Not Issued              | 161 | 09/18/2002 | Method and apparatus for indicating the presence of a wireless local area network by detecting energy fluctuations | RAMASWAMY, KUMAR |
| <a href="#">10297546</a> | Not Issued              | 41  | 12/06/2002 | Atm multicasting for delivering information over a network   | RAMASWAMY, KUMAR |
| <a href="#">10348927</a> | Not Issued              | 132 | 01/22/2003 | Mobile communication system  | RAMASWAMY, KUMAR |
| <a href="#">10361395</a> | Not Issued              | 161 | 02/10/2003 | System and method for tuning radio service   | RAMASWAMY, KUMAR |
| <a href="#">10364133</a> | Not Issued              | 161 | 02/11/2003 | Apparatus and method for controlling display of video camera signals received over a powerline network             | RAMASWAMY, KUMAR |
| <a href="#">10364134</a> | Not Issued              | 161 | 02/11/2003 | Apparatus and method for monitoring security camera operation over a powerline network                             | RAMASWAMY, KUMAR |
| <a href="#">10372531</a> | Not Issued              | 161 | 02/24/2003 | Method and apparatus for multicast delivery of information   | RAMASWAMY, KUMAR |
| <a href="#">10424442</a> | <a href="#">7142851</a> | 150 | 04/28/2003 | TECHNIQUE FOR SECURE WIRELESS LAN ACCESS   | RAMASWAMY, KUMAR |
| <a href="#">10450800</a> | Not Issued              | 120 | 06/16/2003 | System and method for transmitting digital video files with error recovery   | RAMASWAMY, KUMAR |
| <a href="#">10479141</a> | Not Issued              | 161 | 11/26/2003 | Seamless Communications Through Optimal Networks   | RAMASWAMY, KUMAR |
| <a href="#">10484066</a> | <a href="#">6900828</a> | 150 | 01/16/2004 | FADE RESISTANT DIGITAL TRANSMISSION AND RECEPTION SYSTEM   | RAMASWAMY, KUMAR |
| <a href="#">10484567</a> | Not Issued              | 61  | 01/22/2004 | System and method for broadcast of independently encoded signals on atsc channels                                  | RAMASWAMY, KUMAR |
| <a href="#">10486400</a> | Not Issued              | 161 | 01/15/2004 | Robust reception of digital broadcast transmission   | RAMASWAMY, KUMAR |
| <a href="#">10498329</a> | Not Issued              | 161 | 06/10/2004 | System and method for downloading data using a proxy   | RAMASWAMY, KUMAR |
| <a href="#">10498402</a> | Not Issued              | 41  | 06/10/2004 | Apparatus and methods for delayed network information transfer   | RAMASWAMY, KUMAR |
| <a href="#">10498403</a> | Not Issued              | 93  | 06/10/2004 | APPARATUS AND METHODS FOR INFORMATION TRANSFER USING A CACHED SERVER   | RAMASWAMY, KUMAR |
| <a href="#">10498636</a> | Not Issued              | 71  | 06/14/2004 | Videoconference application user interface with messaging system   | RAMASWAMY, KUMAR |

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|-----------------|---------------|----|------------|--|---------------------|
| <u>10498739</u> | Not<br>Issued | 40 | 10/26/2004 | Server invoked time scheduled<br>videoconference | RAMASWAMY,<br>KUMAR |
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## Inventor Name Search Result

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Last Name = RAMASWAMY

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| Application#             | Patent#                 | Status | Date Filed | Title  | Inventor Name    |
|--------------------------|-------------------------|--------|------------|--|------------------|
| <a href="#">10499921</a> | Not Issued              | 30     | 01/11/2005 | Videoconference session switching from unicast to multicast  | RAMASWAMY, KUMAR |
| <a href="#">10499923</a> | Not Issued              | 71     | 08/09/2005 | Quality of service setup on a time reservation basis   | RAMASWAMY, KUMAR |
| <a href="#">10507862</a> | Not Issued              | 133    | 09/16/2004 | Videoconference system architecture  | RAMASWAMY, KUMAR |
| <a href="#">10511641</a> | Not Issued              | 61     | 10/18/2004 | Wireless local area network (wlan) as a public land mobile network for wlan/telecommunications system interworking | RAMASWAMY, KUMAR |
| <a href="#">10511647</a> | <a href="#">7139966</a> | 150    | 10/18/2004 | DIVERSITY SCHEME FOR ERROR CONTROL CODING IN A SYSTEM WITH PRIORITIZED DATA  | RAMASWAMY, KUMAR |
| <a href="#">10512525</a> | Not Issued              | 30     | 10/26/2004 | Tuner input filter with electronically adjustable response for adapting to antenna characteristic                  | RAMASWAMY, KUMAR |
| <a href="#">10514311</a> | Not Issued              | 61     | 11/12/2004 | Seamless public wireless local area network user authentication  | RAMASWAMY, KUMAR |
| <a href="#">10518995</a> | Not Issued              | 71     | 12/21/2004 | Ever-decreasing network qos requirements for stored video streaming in a mobile wireless interworking environment  | RAMASWAMY, KUMAR |
| <a href="#">10518997</a> | <a href="#">7133486</a> | 150    | 12/21/2004 | EVER-INCREASING QUALITY FOR STORED VIDEO STREAMING IN A MOBILE WIRELESS INTERWORKING ENVIRONMENT                   | RAMASWAMY, KUMAR |
| <a href="#">10524656</a> | Not                     | 25     | 09/26/2005 | Watermarking digital data at a   | RAMASWAMY,       |

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|                          | Issued     |    |            | user device  | KUMAR            |
| <a href="#">10524906</a> | Not Issued | 30 | 02/17/2005 | Combined video decoder and watermark creator   | RAMASWAMY, KUMAR |
| <a href="#">10527125</a> | Not Issued | 61 | 03/08/2005 | Video on demand server system and method   | RAMASWAMY, KUMAR |
| <a href="#">10541930</a> | Not Issued | 41 | 07/11/2005 | Method and an apparatus for mapping an mpeg transport stream into ip packets for wlan broadcast        | RAMASWAMY, KUMAR |
| <a href="#">10542972</a> | Not Issued | 30 | 07/21/2005 | Robust mode staggercasting user controlled switching modes   | RAMASWAMY, KUMAR |
| <a href="#">10542976</a> | Not Issued | 30 | 07/21/2005 | Robust mode staggercasting without artifacts   | RAMASWAMY, KUMAR |
| <a href="#">10543043</a> | Not Issued | 30 | 07/21/2005 | Robust mode staggercasting with adjustable delay offset  | RAMASWAMY, KUMAR |
| <a href="#">10543044</a> | Not Issued | 30 | 07/21/2005 | Robust mode staggercasting   | RAMASWAMY, KUMAR |
| <a href="#">10543045</a> | Not Issued | 30 | 07/21/2005 | Robust mode staggercasting storing content   | RAMASWAMY, KUMAR |
| <a href="#">10543368</a> | Not Issued | 30 | 07/26/2005 | Robust mode staggercasting with multiple delays for multi-resolution signals                           | RAMASWAMY, KUMAR |
| <a href="#">10543481</a> | Not Issued | 71 | 07/26/2005 | Robust mode staggercasting fast channel change   | RAMASWAMY, KUMAR |
| <a href="#">10543482</a> | Not Issued | 30 | 07/26/2005 | Robust mode staggercasting video quality enhancement   | RAMASWAMY, KUMAR |
| <a href="#">10543483</a> | Not Issued | 30 | 07/26/2005 | Robust mode staggercasting reduced resolution video for mobile receiver                                | RAMASWAMY, KUMAR |
| <a href="#">10548891</a> | Not Issued | 41 | 09/12/2005 | Whole-House Video Network  | RAMASWAMY, KUMAR |
| <a href="#">10550964</a> | Not Issued | 41 | 09/26/2005 | Secure roaming between wireless access points  | RAMASWAMY, KUMAR |
| <a href="#">10553648</a> | Not Issued | 41 | 10/14/2005 | Techniques for offering seamless accesses in enterprise hot spots for both guest users and local users | RAMASWAMY, KUMAR |
| <a href="#">10554580</a> | Not Issued | 93 | 10/27/2005 | ADAPTIVE SOFT DEMODULATION FOR RECEPTION OF DISTORTED SIGNALS  | RAMASWAMY, KUMAR |
| <a href="#">10554936</a> | Not Issued | 30 | 10/31/2005 | Method and apparatus for synchronizing a multi-level modulation signal                                 | RAMASWAMY, KUMAR |

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| <a href="#">10556544</a> | Not Issued | 30  | 11/14/2005 | Unified receiver for layered and hierarchical modulation systems   | RAMASWAMY, KUMAR |
| <a href="#">10564253</a> | Not Issued | 61  | 01/10/2006 | Technique for video broadcasting in wireless lan   | RAMASWAMY, KUMAR |
| <a href="#">10567271</a> | Not Issued | 30  | 02/06/2006 | Method and device for securing content delivery over a communication network via content keys            | RAMASWAMY, KUMAR |
| <a href="#">10567946</a> | Not Issued | 30  | 02/10/2006 | Methods and Apparatus For Hierarchical Modulation Using Radial Constellation                             | RAMASWAMY, KUMAR |
| <a href="#">10590582</a> | Not Issued | 30  | 08/24/2006 | Multi-stage media compression technique for power and storage efficiency                                 | RAMASWAMY, KUMAR |
| <a href="#">11338160</a> | Not Issued | 161 | 01/24/2006 | Mobile communication system  | RAMASWAMY, KUMAR |
| <a href="#">11596949</a> | Not Issued | 30  | 09/20/2007 | Methods And Apparatus Managing Access To Virtual Private Network For Portable Devices Without Vpn Client | RAMASWAMY, KUMAR |
| <a href="#">11662565</a> | Not Issued | 25  | 03/12/2007 | Low Density Parity Check (Ldpc) Decoder  | RAMASWAMY, KUMAR |
| <a href="#">11716921</a> | Not Issued | 30  | 03/12/2007 | Robust reception of digital broadcast transmission   | RAMASWAMY, KUMAR |
| <a href="#">11791776</a> | Not Issued | 30  | 05/29/2007 | Network Managed Channel Change In Digital Networks   | RAMASWAMY, KUMAR |
| <a href="#">11791805</a> | Not Issued | 20  | 05/29/2007 | Multiple Flows For Incremental Forward Error Correction Mechanisms                                       | RAMASWAMY, KUMAR |
| <a href="#">11792009</a> | Not Issued | 25  | 05/30/2007 | Multiple Closed Captioning Flows And Customer Access In Digital Networks                                 | RAMASWAMY, KUMAR |
| <a href="#">11883040</a> | Not Issued | 25  | 07/25/2007 | System Architecture and Method for Scheduled Downloading Services  | RAMASWAMY, KUMAR |
| <a href="#">11887304</a> | Not Issued | 19  | 01/01/0001 | Method and Apparatus for Improving Reception of Wireless Signals Using Spartial Redundancy               | RAMASWAMY, KUMAR |
| <a href="#">11887307</a> | Not Issued | 19  | 01/01/0001 | Method and Apparatus for Providing Robust Reception in a Wireless Communications System                  | RAMASWAMY, KUMAR |
| <a href="#">12224680</a> | Not Issued | 19  | 01/01/0001 | Centralized Scheduler for Content Delivery Network   | RAMASWAMY, KUMAR |



|                          |            |     |            |   |                  |
|--------------------------|------------|-----|------------|---|------------------|
| <a href="#">60012339</a> | Not Issued | 159 | 02/27/1996 | TIMING RECOVERY SYSTEM FOR A DIGITAL VIDEO SIGNAL PROCESSOR   | RAMASWAMY, KUMAR |
| <a href="#">60024371</a> | Not Issued | 159 | 08/01/1996 | MULTIPOINT MICROWAVE DISTRIBUTION SYSTEM AND PROGRAM GUIDE  | RAMASWAMY, KUMAR |
| <a href="#">60051265</a> | Not Issued | 159 | 06/30/1997 | CROSS POLARIZATION INTERFERENCE CANCELLATION FOR SATELLITE  | RAMASWAMY, KUMAR |
| <a href="#">60056487</a> | Not Issued | 159 | 08/21/1997 | SYSTEM FOR FORMATTING AND PROCESSING PROGRAM DATA AND PROGRAM GUIDE INFORMATION IN DIFFERENT FORMATS FOR COMMUNICATION NETWORKS   | RAMASWAMY, KUMAR |
| <a href="#">60069342</a> | Not Issued | 159 | 12/12/1997 | POWER SAVING PROTOCOL FOR TDMA (TIME DIVISION MULTIPLE ACCESS) MULTIPLE-LINE CORDLESS PHONE LINKS   | RAMASWAMY, KUMAR |
| <a href="#">60069343</a> | Not Issued | 159 | 12/12/1997 | MULTI-HANDSET EXPANSION FOR TDMA (TIME DIVISION MULTIPLE ACCESS) MULTI-LINE CORDLESS PHONE  | RAMASWAMY, KUMAR |
| <a href="#">60069344</a> | Not Issued | 159 | 12/12/1997 | MECHANISM TO REGULATE AND RESPOND TO INCOMING TYPE II CALLER ID MESSAGES FROM A CENTRAL OFFICE TO THE BASE STATION OF A MULTI-LINE MULTI-HANDSET CORDED OR CORDLESS PHONE CUSTOMER PREMISES EQUIPMENT | RAMASWAMY, KUMAR |

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|--------------------------|------------|--------|------------|--|------------------|
| <a href="#">60069345</a> | Not Issued | 159    | 12/12/1997 | TIME DIVISION MULTIPLE ACCESS (TDMA) DEMODULATOR ARCHITECTURE                                | RAMASWAMY, KUMAR |
| <a href="#">60069541</a> | Not Issued | 159    | 12/12/1997 | AUTOMATIC CALLBACK FEATURE IN BUSINESS PHONE SYSTEMS   | RAMASWAMY, KUMAR |
| <a href="#">60069552</a> | Not Issued | 159    | 12/12/1997 | BATTERY-BACKUP MECHANISM FOR MULTILINE BUSINESS CORDLESS PHONES                              | RAMASWAMY, KUMAR |
| <a href="#">60069554</a> | Not Issued | 159    | 12/12/1997 | ENHANCED RANGE/GRACEFUL DEGRADATION FOR DIGITAL CORDLESS TELEPHONES                          | RAMASWAMY, KUMAR |
| <a href="#">60069555</a> | Not Issued | 159    | 12/12/1997 | RETRIEVING STORED INFORMATION FROM THE BASE STATION OF A CORDLESS PHONE SYSTEM               | RAMASWAMY, KUMAR |
| <a href="#">60069568</a> | Not Issued | 159    | 12/12/1997 | MULTI-LINE CORDLESS TELEPHONE COMPUTER INTERFACE   | RAMASWAMY, KUMAR |
| <a href="#">60069684</a> | Not Issued | 159    | 12/12/1997 | INITIALIZATION OF HANDSETS IN A MULTI-LINE CORDLESS PHONE SYSTEM FOR SECURE COMMUNICATIONS   | RAMASWAMY, KUMAR |
| <a href="#">60078643</a> | Not Issued | 159    | 03/19/1998 | METHOD TO COMBINE OSD PACKET STREAM WITH BROADCAST PACKET STREAM IN DIGITAL VCR TO HDTV LINK | RAMASWAMY, KUMAR |
| <a href="#">60138232</a> | Not        | 159    | 06/09/1999 | CODE MAPPING IN A  | RAMASWAMY,       |

|                          |            |     |            |  |                  |
|--------------------------|------------|-----|------------|--|------------------|
|                          | Issued     |     |            | TRELLIS DECODER  | KUMAR            |
| <a href="#">60145690</a> | Not Issued | 159 | 07/26/1999 | PROGRAMMABLE DIGITAL SIGNAL COMBINER FOR TELEPHONE CONFERENCING ANDINTERCOM                            | RAMASWAMY, KUMAR |
| <a href="#">60145691</a> | Not Issued | 159 | 07/26/1999 | SYSTEM FOR SUPPORTING ANALOG FACSIMILE AND COMPRESSED VOICE OVER A DIGITAL WIRELESS LINK               | RAMASWAMY, KUMAR |
| <a href="#">60157706</a> | Not Issued | 159 | 10/05/1999 | SIMPLIFIED MULTI-LINE DIGITAL TELEPHONY AND DATA SERVICES OVER A DIGITAL SUBSCRIBER LOOP (DSL) SERVICE | RAMASWAMY, KUMAR |
| <a href="#">60167021</a> | Not Issued | 159 | 11/23/1999 | UNEQUAL ERROR PROTECTION HIERARCHICAL QAM  | RAMASWAMY, KUMAR |
| <a href="#">60167022</a> | Not Issued | 159 | 11/23/1999 | GAIN CONTROL MECHANISM FOR HIERARCHICAL MULTI-AMPLITUDE MODULATIONS                                    | RAMASWAMY, KUMAR |
| <a href="#">60167023</a> | Not Issued | 159 | 11/23/1999 | USE OF THE GROUPING FACTOR IN A HIERARCHICAL BACKWARD COMPATIBLE HIGHER ORDER MODULATION SYSTEM        | RAMASWAMY, KUMAR |
| <a href="#">60167024</a> | Not Issued | 159 | 11/23/1999 | BIT-TO-SYMBOL MAPPING GRAY ENCODING FOR IMPROVED PERFORMANCE IN HIERARCHICAL QAM MODULATION            | RAMASWAMY, KUMAR |
| <a href="#">60210257</a> | Not Issued | 159 | 06/08/2000 | Enhanced services using digital subscriber line (OSL) technology                                       | RAMASWAMY, KUMAR |
| <a href="#">60259718</a> | Not Issued | 159 | 01/04/2001 | Pre-programmable internet audio terminal and a means of simplifying the user interface                 | RAMASWAMY, KUMAR |
| <a href="#">60259721</a> | Not Issued | 159 | 01/04/2001 | Multifunction internet radio alarm clock with internal powerline modem                                 | RAMASWAMY, KUMAR |
| <a href="#">60259723</a> | Not Issued | 159 | 01/04/2001 | Mechanism for notifying user of the status of the network connection for an internet radio             | RAMASWAMY, KUMAR |

|                          |            |     |            |  |                  |
|--------------------------|------------|-----|------------|--|------------------|
|                          |            |     |            | device connected to the internet via a digital home network                        |                  |
| <a href="#">60294117</a> | Not Issued | 159 | 05/29/2001 | Concatenated block coding for a packet-based communications system                 | RAMASWAMY, KUMAR |
| <a href="#">60294402</a> | Not Issued | 159 | 05/30/2001 | Multi-network mobile communication system  | RAMASWAMY, KUMAR |
| <a href="#">60305243</a> | Not Issued | 159 | 07/13/2001 | Digital audio/video broadcast on cellular systems                                  | RAMASWAMY, KUMAR |
| <a href="#">60306565</a> | Not Issued | 159 | 07/19/2001 | Data architectures for quality of service in wireless lossy channels               | RAMASWAMY, KUMAR |
| <a href="#">60306586</a> | Not Issued | 159 | 07/19/2001 | Broadcast compatible mobile VSB reception system                                   | RAMASWAMY, KUMAR |
| <a href="#">60307201</a> | Not Issued | 159 | 07/23/2001 | Broadcast of MPEG-4 on ATSC terrestrial channels                                   | RAMASWAMY, KUMAR |
| <a href="#">60326264</a> | Not Issued | 159 | 10/01/2001 | Bidding based multimedia service reservation system and pricing model              | RAMASWAMY, KUMAR |
| <a href="#">60329486</a> | Not Issued | 159 | 10/15/2001 | System for transmitting digital video files with error recovery via a back channel | RAMASWAMY, KUMAR |
| <a href="#">60340547</a> | Not Issued | 159 | 12/13/2001 | Location dependent storage medium  | RAMASWAMY, KUMAR |
| <a href="#">60340549</a> | Not Issued | 159 | 12/13/2001 | Methods of scheduling downloads for content delivery services                      | RAMASWAMY, KUMAR |
| <a href="#">60340551</a> | Not Issued | 159 | 12/13/2001 | Caching servers for delayed uploading/downloading of servers                       | RAMASWAMY, KUMAR |
| <a href="#">60340661</a> | Not Issued | 159 | 12/13/2001 | Mobile proxy server for downloading / uploading services                           | RAMASWAMY, KUMAR |
| <a href="#">60341671</a> | Not Issued | 159 | 12/15/2001 | Quality of service setup on a time reservation basis                               | RAMASWAMY, KUMAR |
| <a href="#">60341800</a> | Not Issued | 159 | 12/15/2001 | Videoconference session switching from unicast to multicast                        | RAMASWAMY, KUMAR |
| <a href="#">60341801</a> | Not Issued | 159 | 12/15/2001 | Videoconference application user interface   | RAMASWAMY, KUMAR |
| <a href="#">60341819</a> | Not Issued | 159 | 12/15/2001 | Server invoked time scheduled video conference                                     | RAMASWAMY, KUMAR |
| <a href="#">60353525</a> | Not Issued | 159 | 02/01/2002 | Messaging protocol for an alarm clock-to-PC link using digital                     | RAMASWAMY, KUMAR |

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|                          |            |     |            | home networking  |                  |
| <a href="#">60365342</a> | Not Issued | 159 | 03/18/2002 | Method for GPS-based wireless LAN detection for mobile devices   | RAMASWAMY, KUMAR |
| <a href="#">60365345</a> | Not Issued | 159 | 03/18/2002 | Method for user-initiated disabling of the LAN-scanning capability on a mobile device                            | RAMASWAMY, KUMAR |
| <a href="#">60365347</a> | Not Issued | 159 | 03/18/2002 | LANscanner -- a simple method to detect the presence of wireless LANs  | RAMASWAMY, KUMAR |
| <a href="#">60366331</a> | Not Issued | 159 | 03/20/2002 | Videoconference system architecture  | RAMASWAMY, KUMAR |
| <a href="#">60373197</a> | Not Issued | 159 | 04/17/2002 | WLAN as a logical PLMN for WLAN-UMTS interworking  | RAMASWAMY, KUMAR |
| <a href="#">60374030</a> | Not Issued | 159 | 04/19/2002 | Diversity scheme for error control coding in a system with prioritized data                                      | RAMASWAMY, KUMAR |
| <a href="#">60376128</a> | Not Issued | 159 | 04/26/2002 | Tuner input filter with electronically adjustable response for adapting to antenna characteristic                | RAMASWAMY, KUMAR |
| <a href="#">60377912</a> | Not Issued | 159 | 05/03/2002 | Method and apparatus for multicast delivery of information   | RAMASWAMY, KUMAR |
| <a href="#">60378029</a> | Not Issued | 159 | 05/13/2002 | Seamless public wireless LAN user authentication using web browser and IEEE 802.1X                               | RAMASWAMY, KUMAR |
| <a href="#">60378030</a> | Not Issued | 159 | 05/13/2002 | Dynamic business relationship establishment in a public wireless LAN environment                                 | RAMASWAMY, KUMAR |
| <a href="#">60378031</a> | Not Issued | 159 | 05/13/2002 | Pre-paid data card authentication in a public wireless LAN access system   | RAMASWAMY, KUMAR |
| <a href="#">60390810</a> | Not Issued | 159 | 06/21/2002 | Ever-decreasing network QoS requirement for stored video streaming in a mobile wireless interworking environment | RAMASWAMY, KUMAR |
| <a href="#">60390841</a> | Not Issued | 159 | 06/21/2002 | Ever-increasing quality for stored video streaming in a mobile wireless interworking environment                 | RAMASWAMY, KUMAR |


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| Application#             | Patent#    | Status | Date Filed | Title  | Inventor Name    |
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| <a href="#">60404884</a> | Not Issued | 159    | 08/21/2002 | Watermark creation at user devices with license information  | RAMASWAMY, KUMAR |
| <a href="#">60409645</a> | Not Issued | 159    | 09/10/2002 | Windowing VBR video on demand server   | RAMASWAMY, KUMAR |
| <a href="#">60439093</a> | Not Issued | 159    | 01/09/2003 | Mapping a transport stream into IP packets for WLAN broadcasting services                              | RAMASWAMY, KUMAR |
| <a href="#">60443672</a> | Not Issued | 159    | 01/28/2003 | Robust mode staggercasting   | RAMASWAMY, KUMAR |
| <a href="#">60453507</a> | Not Issued | 159    | 03/11/2003 | Digital home networking  | RAMASWAMY, KUMAR |
| <a href="#">60453615</a> | Not Issued | 159    | 03/11/2003 | Advanced modulation, coding and compresion   | RAMASWAMY, KUMAR |
| <a href="#">60453792</a> | Not Issued | 159    | 03/11/2003 | Advanced modulation, coding, and compression   | RAMASWAMY, KUMAR |
| <a href="#">60458189</a> | Not Issued | 159    | 03/27/2003 | Secure wireless L A N infrasture for seamless roaming with smart gateways and simple access points     | RAMASWAMY, KUMAR |
| <a href="#">60463060</a> | Not Issued | 159    | 04/15/2003 | Techniques for offering seamless accesses in enterprise hot spots for both guest users and local users | RAMASWAMY, KUMAR |
| <a href="#">60467946</a> | Not Issued | 159    | 05/05/2003 | Advanced modulation, pre-compensation and coding schemes for hierarchical modulation systems           | RAMASWAMY, KUMAR |
| <a href="#">60471167</a> | Not Issued | 159    | 05/16/2003 | Unified receivers for layered and hierarchical modulation  | RAMASWAMY, KUMAR |
| <a href="#">60494836</a> | Not Issued | 159    | 08/13/2003 | Security framework in a media content delivery system with hybrid access networks                      | RAMASWAMY, KUMAR |

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|---------------------------------|------------|-----|------------|--|------------------|
| <a href="#"><u>60496470</u></a> | Not Issued | 159 | 08/20/2003 | Methods and apparatus for hierarchical modulations with radial constellation                     | RAMASWAMY, KUMAR |
| <a href="#"><u>60529493</u></a> | Not Issued | 159 | 12/15/2003 | Using packet processing capabilities of network elements for statistical multiplexing of content | RAMASWAMY, KUMAR |
| <a href="#"><u>60571742</u></a> | Not Issued | 159 | 05/17/2004 | Managed VPN for portable devices in a wireless LAN environment                                   | RAMASWAMY, KUMAR |
| <a href="#"><u>60615418</u></a> | Not Issued | 159 | 10/01/2004 | Implementation of LDPC decoder for DVB-S2  | RAMASWAMY, KUMAR |
| <a href="#"><u>60633473</u></a> | Not Issued | 159 | 12/06/2004 | Multiple closed captioning flows and customer access in DSL networks                             | RAMASWAMY, KUMAR |
| <a href="#"><u>60633475</u></a> | Not Issued | 159 | 12/06/2004 | Channel change refinement  | RAMASWAMY, KUMAR |
| <a href="#"><u>60633477</u></a> | Not Issued | 159 | 12/06/2004 | Multiple flows for incremental forward error correction mechanisms                               | RAMASWAMY, KUMAR |
| <a href="#"><u>60665995</u></a> | Not Issued | 159 | 03/29/2005 | Method and apparatus for improving reception of wireless signals using spatial redundancy        | RAMASWAMY, KUMAR |
| <a href="#"><u>60666077</u></a> | Not Issued | 159 | 03/29/2005 | Method and apparatus for providing robust reception in a wireless communications system          | RAMASWAMY, KUMAR |
| <a href="#"><u>60680697</u></a> | Not Issued | 159 | 05/13/2005 | DIRECTV PMP service extension  | RAMASWAMY, KUMAR |
| <a href="#"><u>60725794</u></a> | Not Issued | 159 | 10/12/2005 | Cable remodulator  | RAMASWAMY, KUMAR |
| <a href="#"><u>60725795</u></a> | Not Issued | 159 | 10/12/2005 | Band switchable taps and amplifier for use in a cable system                                     | RAMASWAMY, KUMAR |
| <a href="#"><u>60725798</u></a> | Not Issued | 159 | 10/12/2005 | Frequency selective cable reflector  | RAMASWAMY, KUMAR |
| <a href="#"><u>60799150</u></a> | Not Issued | 159 | 05/10/2006 | Vestigial sideband (VSB) protocol for mobile reception   | RAMASWAMY, KUMAR |
| <a href="#"><u>60799625</u></a> | Not Issued | 159 | 05/11/2006 | Protocol for mobile reception and other environments   | RAMASWAMY, KUMAR |
| <a href="#"><u>60817787</u></a> | Not Issued | 159 | 06/30/2006 | Delivery of personalized mosaic view over an interactive network                                 | RAMASWAMY, KUMAR |
| <a href="#"><u>60832830</u></a> | Not        | 159 | 07/24/2006 | Method, apparatus and system   | RAMASWAMY,       |



|                          |               |     |            |   |                     |
|--------------------------|---------------|-----|------------|---|---------------------|
|                          | Issued        |     |            | for secure distribution of<br>audiovisual content                                     | KUMAR               |
| <a href="#">60928566</a> | Not<br>Issued | 159 | 05/10/2007 | Method and apparatus for fault<br>detection in head-end<br>communication              | RAMASWAMY,<br>KUMAR |
| <a href="#">60966431</a> | Not<br>Issued | 159 | 08/28/2007 | Staggercasting with no channel<br>change delay  | RAMASWAMY,<br>KUMAR |
| <a href="#">60967917</a> | Not<br>Issued | 159 | 09/07/2007 | ATSC M/H synchronization<br>system  | RAMASWAMY,<br>KUMAR |
| <a href="#">60998945</a> | Not<br>Issued | 20  | 10/15/2007 | Application layer for delivery of<br>media services to mobile and<br>handheld devices | RAMASWAMY,<br>KUMAR |
| <a href="#">60998946</a> | Not<br>Issued | 20  | 10/15/2007 | Delivery of media services to<br>mobile and handheld devices                          | RAMASWAMY,<br>KUMAR |
| <a href="#">61007140</a> | Not<br>Issued | 20  | 12/11/2007 | Transcoding within the<br>distribution chain  | RAMASWAMY,<br>KUMAR |

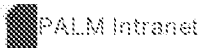
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